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09/942,465	08/29/2001	Michael Gerle	Mo-6422/LeA 34,055	7497

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BAYER CHEMICALS CORPORATION
PATENT DEPARTMENT
100 BAYER ROAD
PITTSBURGH, PA 15205-9741

EXAMINER

SERGEANT, RABON A

ART UNIT	PAPER NUMBER
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1711

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**BEFORE THE BOARD OF PATENT APPEALS
AND INTERFERENCES**

Paper No. 13

Application Number: 09/942,465
Filing Date: August 29, 2001
Appellants: Gerle et al.

Godfried R. Akorli
For Appellant

EXAMINER'S ANSWER

MAILED

FEB 11 2004

GROUP 1700

This is in response to the appeal brief filed November 3, 2003.

(1) *Real Party in Interest*

A statement identifying the real party in interest is contained in the brief.

(2) *Related Appeals and Interferences*

A statement identifying the related appeals and interferences that will directly affect or be directly affected by or have a bearing on the decision in the pending appeal is contained in the brief.

(3) *Status of Claims*

The statement of the status of the claims contained in the brief is correct.

(4) *Status of Amendments After Final*

The appellants' statement of the status of amendments after final rejection contained in the brief is correct.

(5) *Summary of Invention*

The summary of invention contained in the brief is correct.

(6) *Issues*

The examiner takes the position that there are two issues to be considered. These issues are as follows:

- (1) Whether claim 8 is indefinite under 35 U.S.C. 112, second paragraph.
- (2) Whether claims 1-15 are obvious under 35 U.S.C. 103; the claims being unpatentable over Reiff et al. ('370 or '737), each in view of WO 99/52961.

(7) Grouping of Claims

The rejection of claims 1-15 stand or fall together because appellants' brief does not include a statement that this grouping of claims does not stand or fall together and reasons in support thereof. See 37 CFR 1.192(c)(7).

(8) Claims Appealed

The copy of the appealed claims contained in the Appendix to the brief is correct.

(9) Prior Art of Record

U.S. 5,508,370	Reiff et al.	April 16, 1996
U.S. 5,693,737	Reiff et al.	December 2, 1997
WO 99/52961	Danner	October 21, 1999

(10) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which appellants regard as the invention.

The significance of the language, "at one and the same time", is unclear; it is unclear why "one and" is necessary. Furthermore, it is unclear how "desired" further limits "order". It is unclear how to determine the desirability of the order or if the language is to suggest that a particular "order" is undesirable or unworkable. The examiner has considered appellants' response; however, it remains unclear why the language, in question, is necessary and how the language serves to further limit the claim.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reiff et al. ('370 or '737) each in view of WO 99/52961.

The primary references disclose the production of blocked isocyanates and their use with water-proofing and oil-proofing fluorocarbon resins as textile treating compositions, wherein the blocked isocyanates are the reaction product of polyisocyanates, including aromatic isocyanates; active hydrogen compounds containing ionic or potential ionic groups, including sulfonate and/or tert-amino groups; polyoxyalkylene ethers; and blocking agents.

Though the primary references disclose several blocking agents, including imidazoles (column 10, lines 63 and 64), the reference is silent with respect to the use of pyrazole blocking agents; however, the position is taken that pyrazoles were known blocking agents for self dispersible isocyanates, to be used as textile finishes with fluorocarbon polymers, at the time of invention. Furthermore, it was known at the time of invention that the use of pyrazole blocking agents within polyisocyanate compositions to be used as textile finishes yields finishes having improved oil- and water-repellent properties and improved fastness properties. This position is supported by the teachings of the secondary reference. See pages 2 and 3 of WO 99/52961. This disclosure, in combination with the fact that the disclosed imidazoles of the primary references and pyrazoles are isomers, is considered to render the use of pyrazoles within the primary

references *prima facie* obvious. Furthermore, the secondary reference specifically discloses that a preferred polyisocyanate is MDI, which is aromatic. Given the teachings within the secondary reference regarding the benefits associated with the use of pyrazole blocked isocyanates, one of ordinary skill in the art would have reasonably expected the use of the pyrazoles within the primary references to yield textile finishes having improved repellent and fastness properties.

Firstly, appellants have argued that there is no basis in the cited references which would have led the skilled artisan to substitute pyrazoles for imidazoles as blocking agents for NCO-reactive compounds containing sulfonate and /or tert-amino groups, component (B), with a reasonable expectation of success. In response, it is initially noted that the argued blocking agents are utilized in the blocking of the isocyanate groups of the polyisocyanate, component (A), rather than the NCO-reactive compounds containing sulfonate and/or tert-amino groups, component (B). Accordingly, since it has been established that pyrazoles were known blocking agents for isocyanate groups, and since one would have reasonably expected pyrazoles to perform their isocyanate group blocking function regardless of the structure or composition of the NCO-reactive component (B), and since pyrazoles differ from imidazoles (imidazoles being disclosed by the primary references as being suitable blocking agents) only in that a carbon atom and nitrogen atom are transposed within the heterocyclic ring, the position is maintained, in view of the aforementioned advantages associated with the use of pyrazole blocked isocyanates, that one of ordinary skill in the art would have been motivated to utilize pyrazole blocking agents in the production of the compositions of the primary references.

Secondly, it appears that appellants have argued that the examiner has solely based the obviousness rejection on the position that imidazoles and pyrazoles are isomers; appellants further argue that isomerism by itself should not raise a *prima facie* case of obviousness. In response, it would seem clear from the aforementioned statements that the examiner has not based the obviousness rejection solely on the fact that imidazoles and pyrazoles are isomers. While isomerism is a contributing factor in the examiner's holding of obviousness, appellants' argument fails to appreciate that fact that pyrazoles were known blocking agents for isocyanates used within self-dispersible textile finishes.

In summation, the position is maintained that the examiner has set forth the requisite motivation for utilizing pyrazoles as the blocking agents of the compositions of the primary references, and accordingly, has established a *prima facie* case of obviousness.

(11) Response to Argument

Appellants' arguments have been addressed within the ***Grounds of Rejection***.

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For the above reasons, it is believed that the rejections should be sustained.


Respectfully submitted,




Rabon Sergent
Primary Examiner
Art Unit 1711

R. Sergent
February 7, 2004

Conferees:



Supervisory Patent Examiner James Seidleck



Supervisory Patent Examiner David Wu

Bayer Chemicals Corporation
100 Bayer Road
Pittsburgh, Pennsylvania 15205